

Abstract

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The invention relates to an arrangement for projecting an image onto a projection surface, which image is composed of image points, said arrangement comprising at least one light source, which emits a light bundle and has a variable intensity, and a deflection device, which deflects the light bundle onto the projection surface, comprising two-stage transformation optics  
10 between the deflection device and the projection surface.

The invention further relates to optical systems for transforming the angle of an incident light bundle, said systems comprising two-stage transformation optics.

15 The invention is characterized in that the transformation optics (109) consist of two partial systems having positive power of refraction, in that the position of the entrance pupil EP, as seen in the direction of light propagation, is located in front of the first lens vertex (2) of the transformation optics (109), and the exit pupil AP of the transformation optics is located between the lens vertex of the last lens (14) and the projection surface (121), and in that a stop  
20 (111) is arranged in the exit pupil (AP).

